



**Crystal Falls FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 118 ENTRY YEAR 2007
Compartment Acreage:1677 County: Iron**

Revision Date: August 2005

Stand Examiner: Cynthia Cooper

Legal Description: T45N, R32W, sections 4,8,9,17 and 18. T46N, R32W, Sections 6,8,21,22.

Management Goals: Maintain Aspen and improve Northern Hardwoods while protecting wetland areas and riparian zones.

Soil and Topography: Soils predominantly fine sandy loams. Topography is wet lowlands to fairly even terrain.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Surrounding land mostly commercial forest owned by Ned Lake Timber and Land Company. State campground at Deer Lake.

Unique, Natural Features: Several lakes, creeks, vernal ponds and boggy areas throughout the compartment. Stand 88 bordering on Shank Lake has large Cedar and Hemlock along the shoreline with excellent hemlock regeneration.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: Stand 64 is the Deer Lake Campground.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: This compartment is primarily important as a north-south corridor between Shank Lake Deeryard and the Deer Lake Deeryard. This area is currently holding an abundance of deer that the heavily cut deeryard to the east used to hold. Much of the compartment is relatively young aspen, which is suitable for grouse, deer, woodcock and bear. Wolf pack territories exist in and around this compartment. Lowlands are suitable habitat for snowshoes, bobcat, fisher, beaver, muskrat and otter.

MINERAL, OIL AND GAS CONSIDERATIONS:

Surface sediments consist of peat and muck, coarse-textured till and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Hemlock Formation subcrops below the glacial drift. The Hemlock does not have a current economic use. Abandoned iron mines

are located one mile to the southwest. This compartment was previously leased for metallic exploration and potential may exist. The nearest gravel pit is one mile to the north, but there should be some potential in the compartment. There is no economic oil and gas production in the UP.

Vehicle Access: Good for this year of entry.

Survey Needs: None.

Recreational Facilities and Opportunities: Deer Lake Campground in section 4.

Fire Protection:

Additional Compartment Information: Stands 71-88 in T46N R32W are new, previously un-inventoried additions to this compartment.

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: 118

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen		48	168	197	192	67			6		13								691
Black Spruce											20							149	169
Bog or Marsh	162																		162
Cedar																		5	5
Grass	92																		92
Hemlock																		41	41
Lowlnd Brush	43																	3	46
Marsh	35																		35
Mx Swmp Cnfr											60	6							66
Paper Birch						7													7
Red Pine																		14	14
Spruce Fir						75					33							48	156
Swamp Hrdwds																		10	10
Treed Bog	49																		49
Upland Hdwds																		83	83
Water	51																		51
Total	432	48	168	197	192	149			6		126	6						353	1677

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: 118

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	691																										691
S Black Spruce		169																									169
V Bog or Marsh			162																								162
C Cedar				5																							5
G Grass					92																						92
H Hemlock						41																					41
L Lowlnd Brush									46																		46
N Marsh											35																35
Q Mx Swmp Cnfr												66															66
B Paper Birch															7												7
R Red Pine																14											14
F Spruce Fir	33																		123								156
E Swamp Hrdwds																				10							10
D Treed Bog																							49				49
M Upland Hdwds																									83		83
Z Water																									51		51
Total	724	169	162	5	92	41			46		35	66			7	14			123	10		49		83	51	1677	

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: **118**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4941 Cds	Hardwood	375 Cds
Hardwood	761 Mbf	Hardwood	129 Mbf
Softwood	5370 Cds	Softwood	379 Cds
Softwood	854 Mbf	Softwood	69 Mbf
Sum TotVol	13541 Cds	Sum CutVol	1150 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1677		70	

CRYSTAL FALLS FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 118 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
11	M6	8		60	northern hardwood	unevenaged	thinning	2		
comnts Fmd : Poor hardwood. Mostly red maple.(2005)										
16	A6	13	90	50	aspen (upland)	mature	final harvest	2		
33	R9	2		65	red pine	unevenaged	thinning	2		
comnts Fmd : Old plantation in part, appears natural in others. BA high in spots but otherwise fairly open. Thin if cutting stand 61. (2005)										
52	F9	33	90	55	aspen (upland)	mature	final harvest	2		
86	M6	8		60	northern hardwood	unevenaged	thinning	2		
comnts Fmd : Poor hardwood. May thin down to 70 BA to remove poorest poles. (2005)										
Total Acres.....		64								

CRYSTAL FALLS FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 118 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
23	A9	6	77	62	aspen (upland)	mature	final harvest	1		

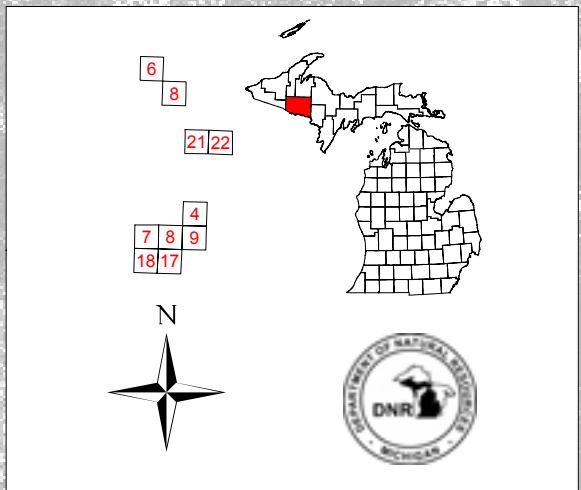
TREATMENT LIMITING FACTORS: Inadequate volume due to low stocking/small diameter/etc.

comnts Fmd : A9/S9 . This stand is an old aspen stand with a black spruce/balsam fir understory. There is much downed wood and much red and hard maple reproduction 4-10' in height. Very wet soils (with drought conditions at time of exam) will make for difficult logging even in the winter. (2005)

Total Acres..... 6

Field Map

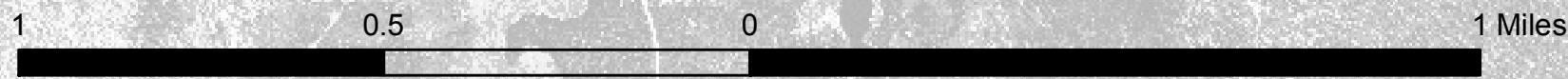
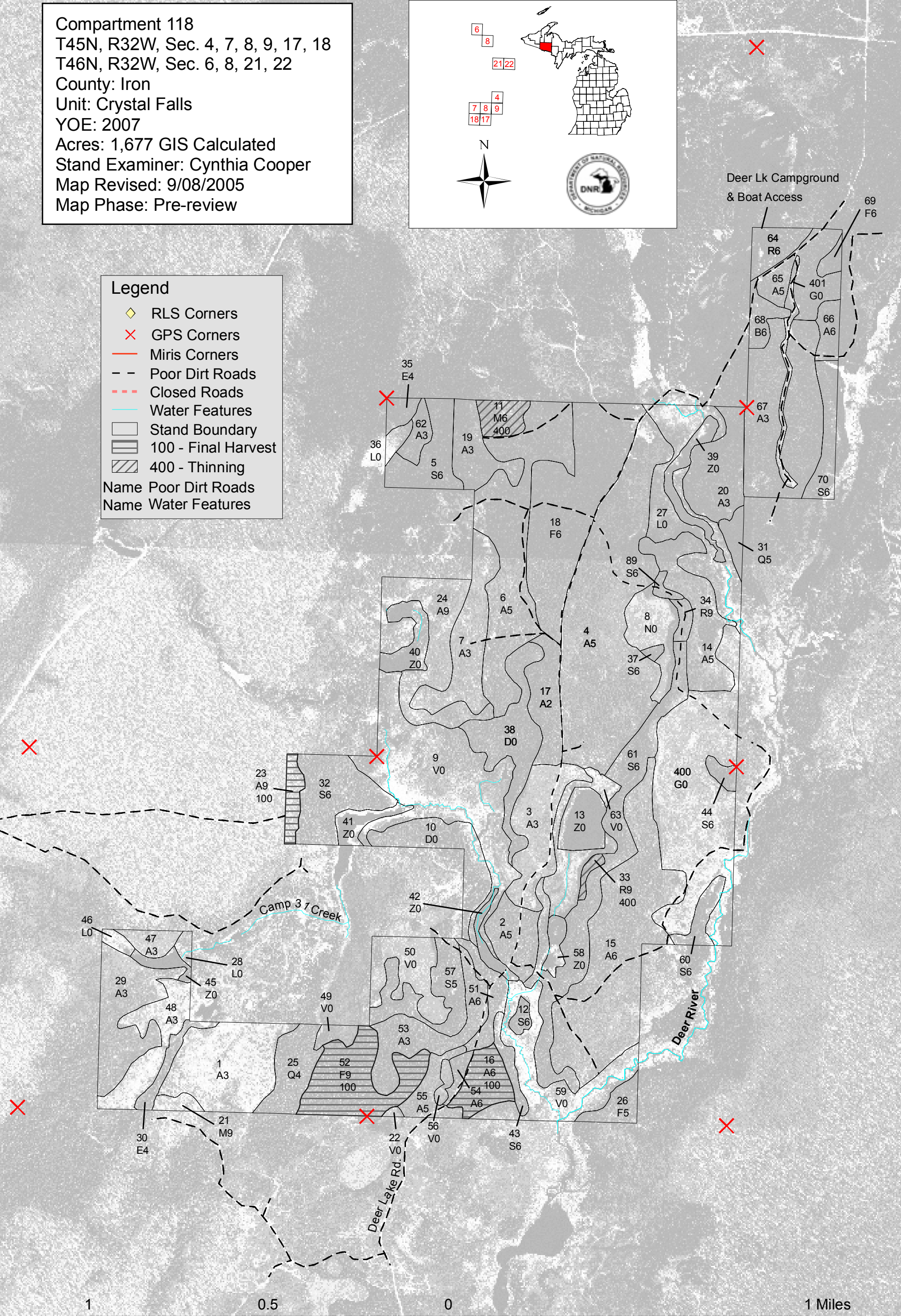
Compartment 118
 T45N, R32W, Sec. 4, 7, 8, 9, 17, 18
 T46N, R32W, Sec. 6, 8, 21, 22
 County: Iron
 Unit: Crystal Falls
 YOE: 2007
 Acres: 1,677 GIS Calculated
 Stand Examiner: Cynthia Cooper
 Map Revised: 9/08/2005
 Map Phase: Pre-review



Legend

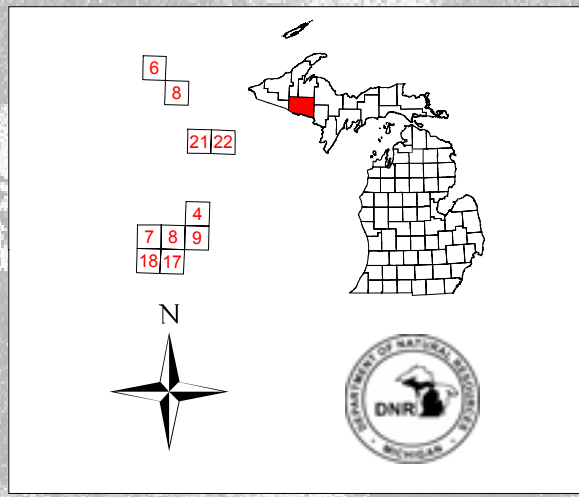
- ◆ RLS Corners
- ✗ GPS Corners
- Miris Corners
- - - Poor Dirt Roads
- - - Closed Roads
- Water Features
- Stand Boundary
- ▨ 100 - Final Harvest
- ▩ 400 - Thinning

Name Poor Dirt Roads
Name Water Features



Field Map

Compartment 118
 T45N, R32W, Sec. 4, 7, 8, 9, 17, 18
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- Legend**
- ◊ RLS Corners
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 - Name Poor Dirt Roads
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